

FIG. 1

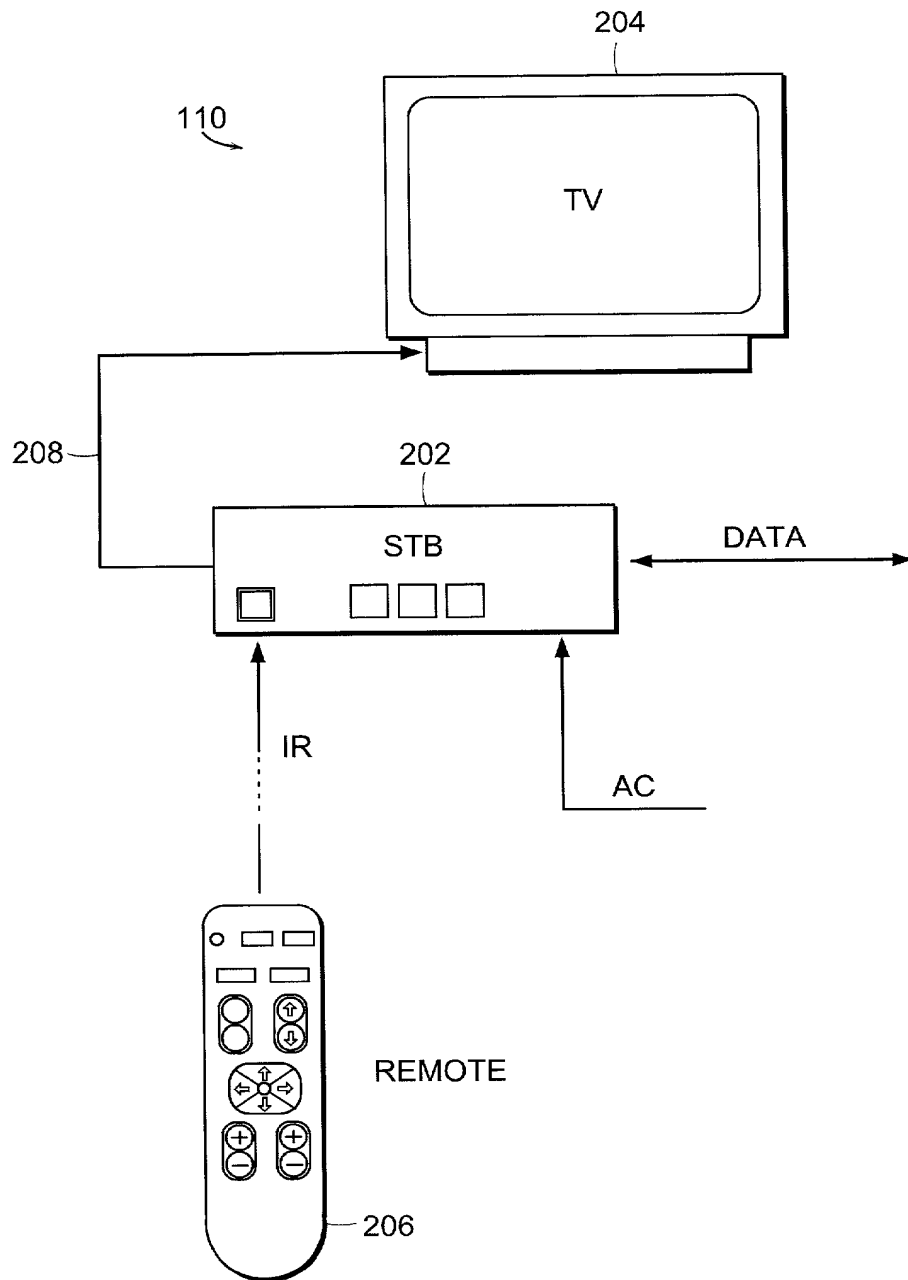


FIG. 2

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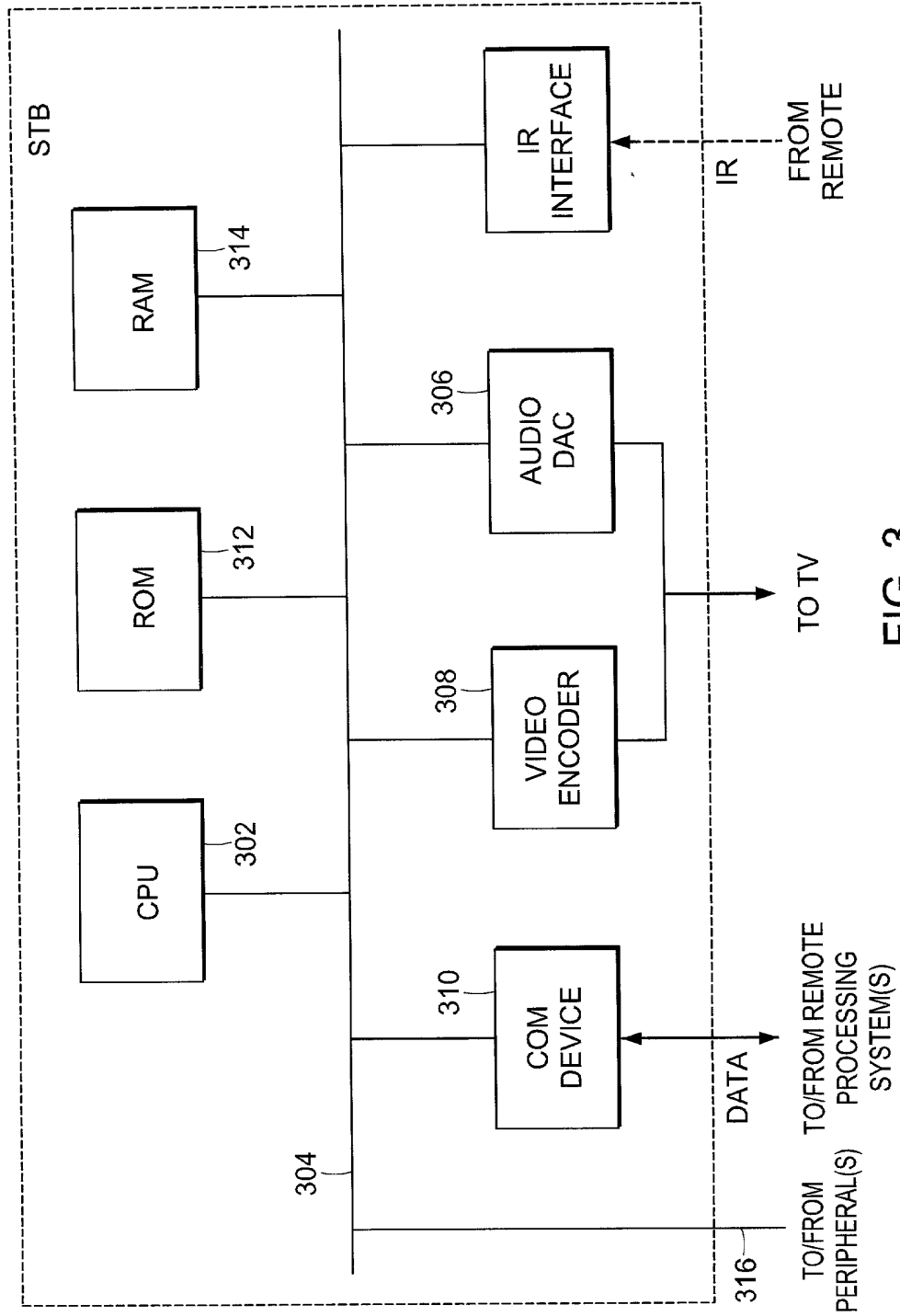


FIG. 3

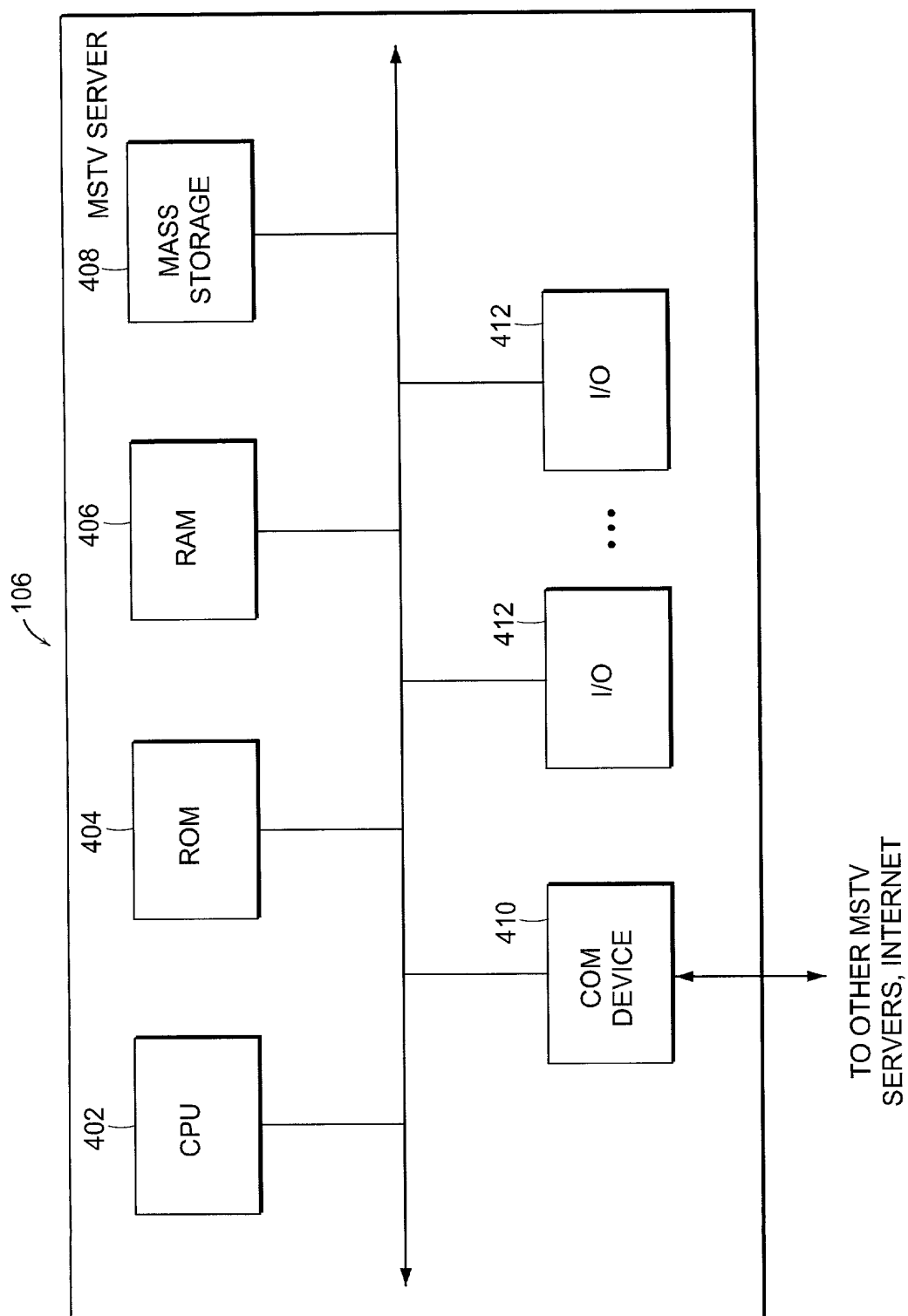


FIG. 4

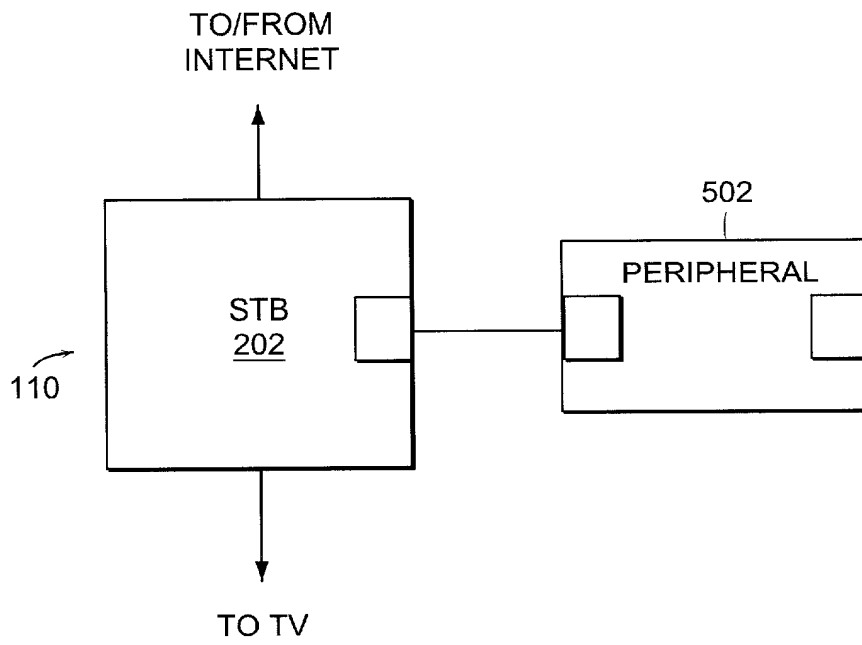


FIG. 5

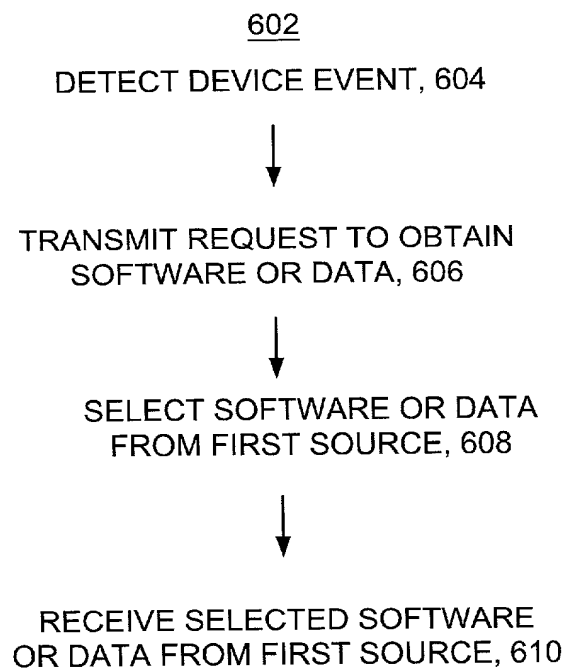


FIG. 6A

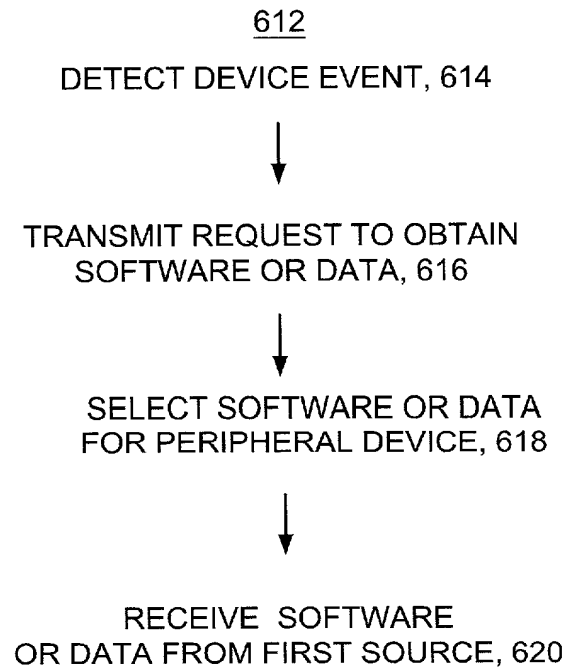


FIG. 6B

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622

DETECT DEVICE EVENT, 624



EXECUTE CORRESPONDING FUNCTION, 625

FIG. 6C



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626

RECEIVE PERIPHERAL DEVICE SIGNAL, 628



PROCESS SIGNAL TO GENERATE  
INTERMEDIARY SIGNAL, 630



TRANSMIT INTERMEDIARY SIGNAL  
TO DIGITAL PROCESSING SYSTEM, 632

FIG. 6D

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634

RECEIVE PERIPHERAL DEVICE SIGNAL, 636



PROCESS PERIPHERAL DEVICE SIGNAL, 638



EXECUTE CORRESPONDING FUNCTION, 640



OPEN COMMUNICATIONS CHANNEL BETWEEN  
CLIENT AND DATA/SOFTWARE SOURCE, 642

FIG. 6E

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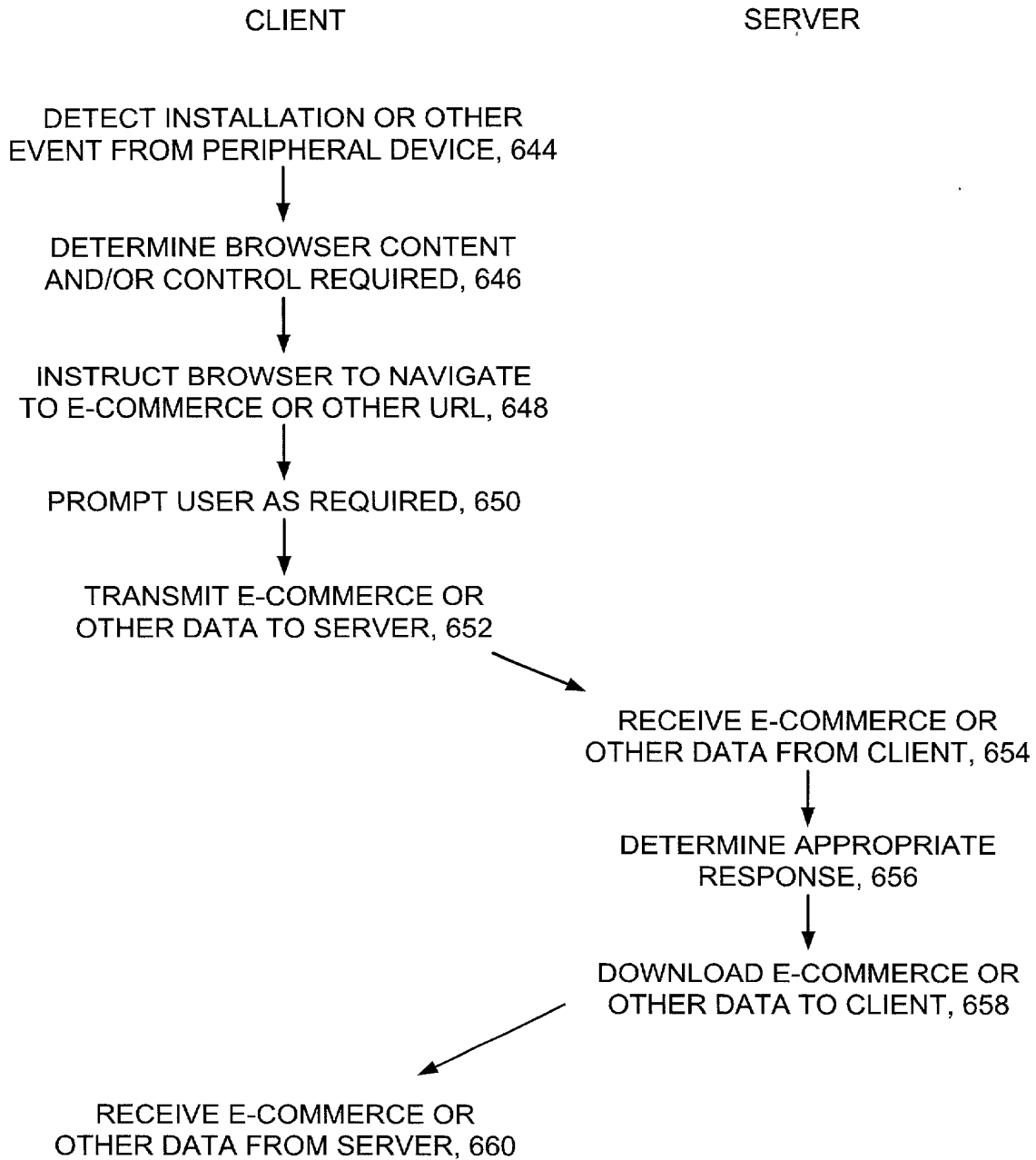


FIG. 6F

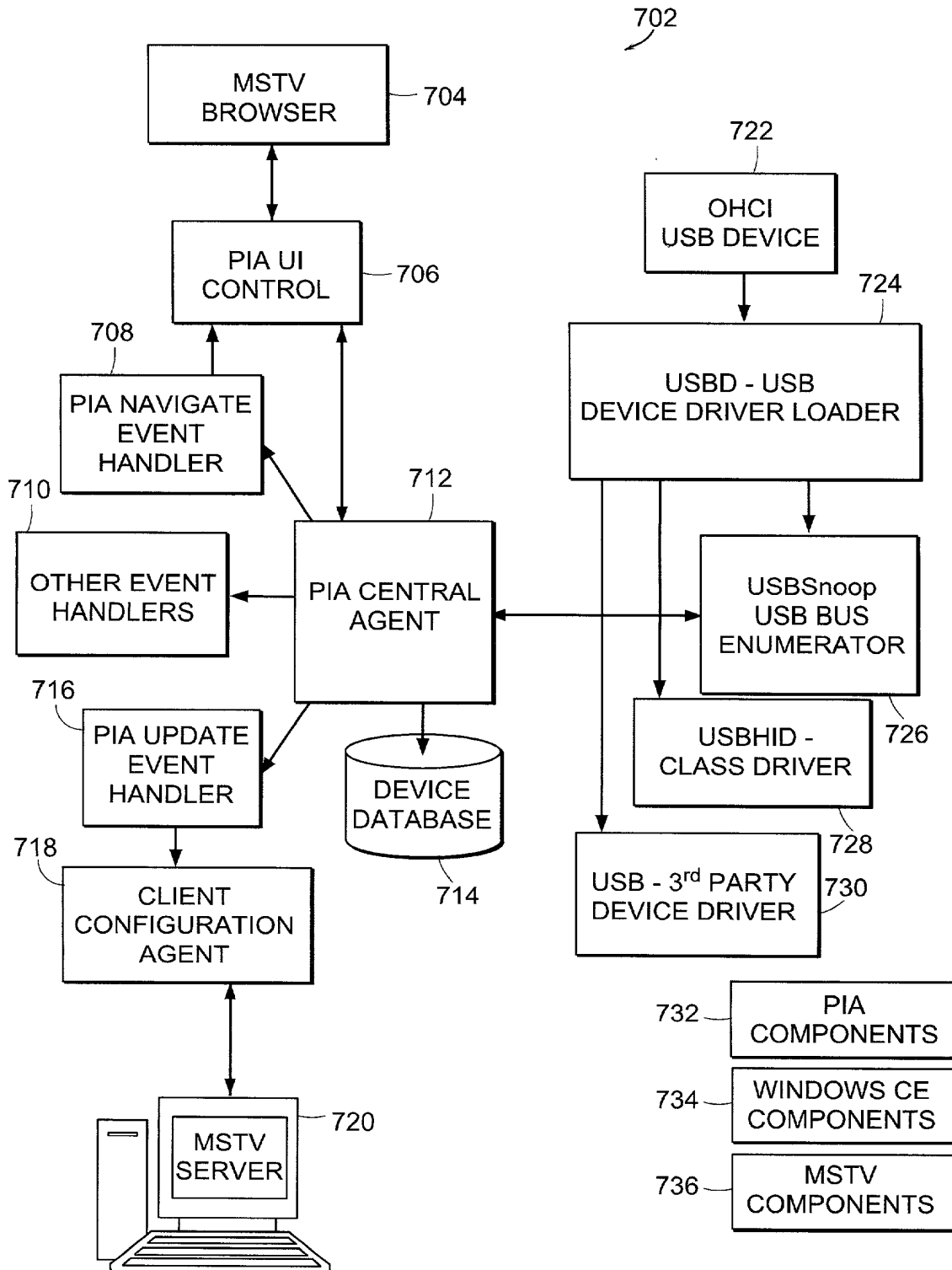


FIG. 7



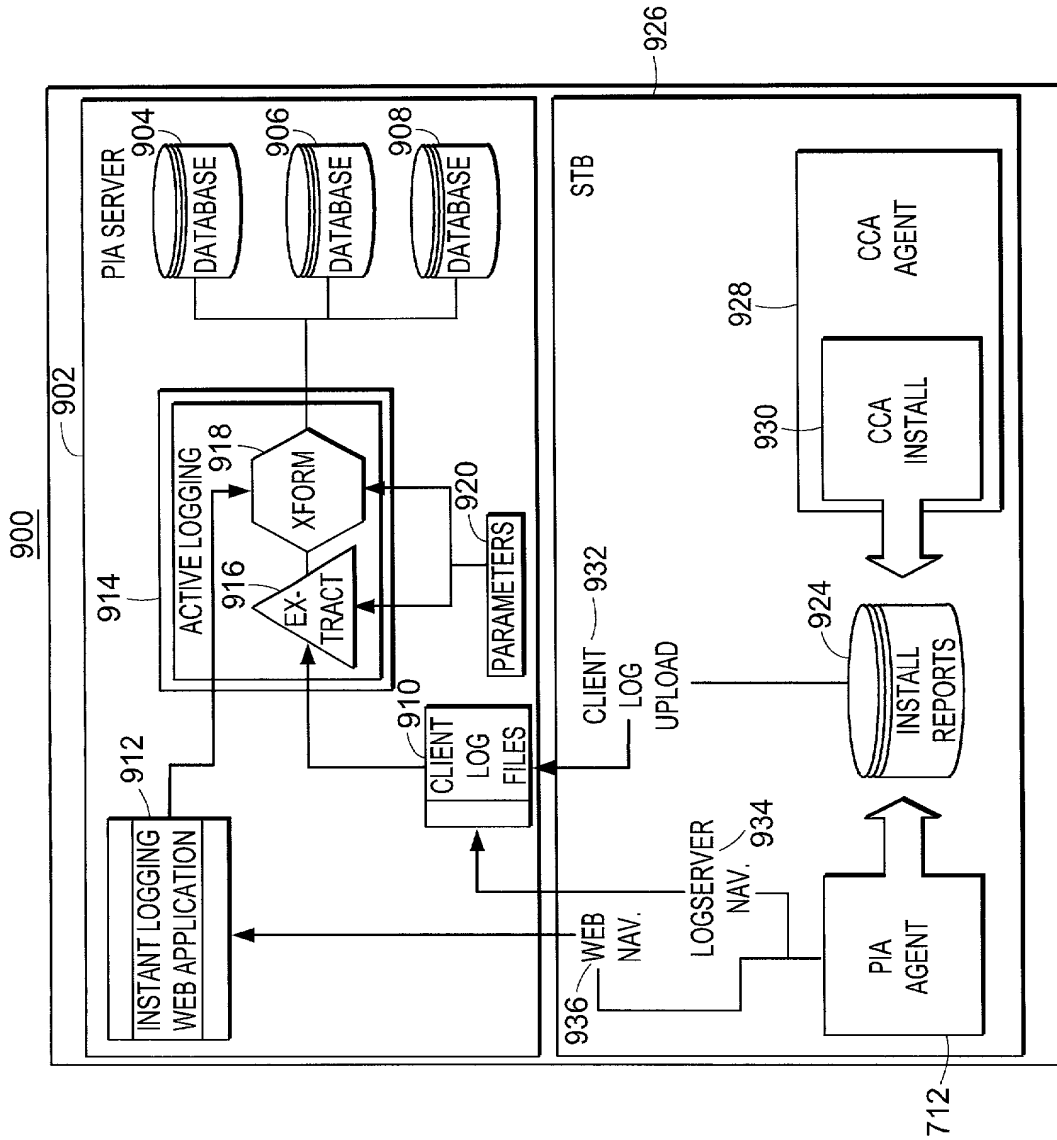


FIG. 9

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**NON-INTERACTIVE:**

STEP 1: O ADDS ENTRY TO HANDLE *d*'s  
INSERTION INTO *s* INTO PIADevice.xml,.  
AND UPDATES CCS



STEP 2: O PREPARES EXTRACTOR XSL STYLESHEET,  
DEFINES HOW STB ID IS TRANSFORMED INTO USER ID,  
ADDS OTHER DETAILS *w* NEEDS TO COMPLETE TRANSACTION



STEP 3: CLIENT ASSEMBLES DATA AND MESSAGE  
STRUCTURE, SENDS MESSAGE



STEP 4: S RECEIVES MESSAGE AND CREATES USER RECORD



STEP 5: S FORWARDS RECORD TO *E*;  
*E* ENTERS TRANSACTION IN ITS PROCESSOR

**INTERACTIVE:**

STEP 1: O ADDS ENTRY TO HANDLE *d*'s  
INSERTION INTO *s* INTO PIADevice.xml,.  
AND UPDATES CCS



STEP 2: O PREPARES TRANSFORMER XSL STYLESHEET  
(*w*/ URL OF WEBSITE WHERE APPROPRIATE)



STEP 3: PIADevice.xml CONTAINS, FOR *d*'s ACTIVATION ON *s*,  
NAVIGATE DIRECTIVE TO DIRECT PACKAGING OF ARGUMENTS;  
REQUEST IN HTTP TO WEB SERVER



STEP 4: WEB SERVER CREATES CUSTOMER RECORD, USES XSL TRANSFORMATION  
STYLESHEET TO PREPARE RECORD, AND WHERE APPROPRIATE, *w* CONNECTS INTERACTIVE  
APPLICATION ON *e* TO *s*, SENDING *e* THE INITIAL DATA IT TRANSFORMED

FIG. 10

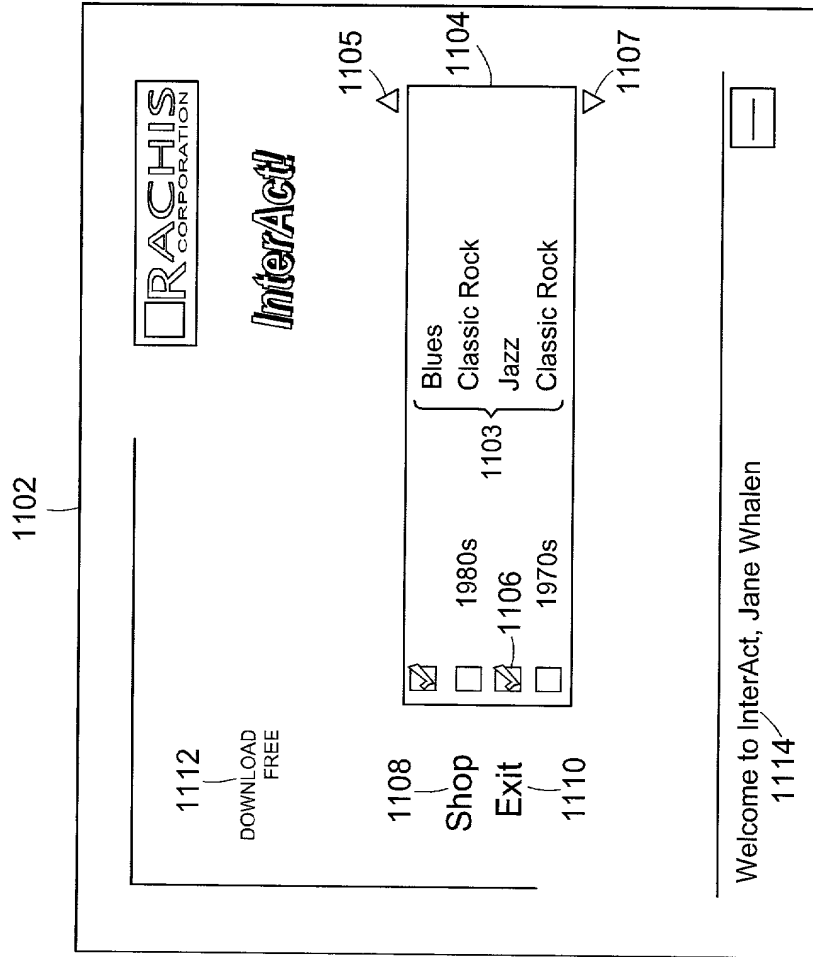


FIG. 11



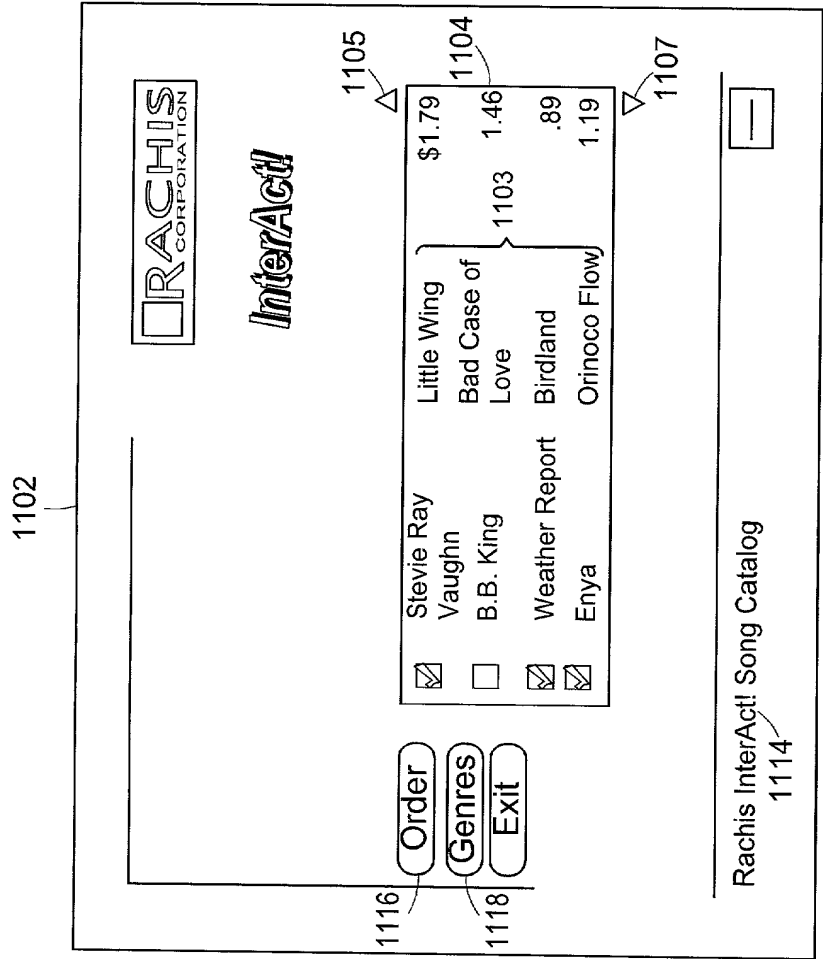


FIG. 12

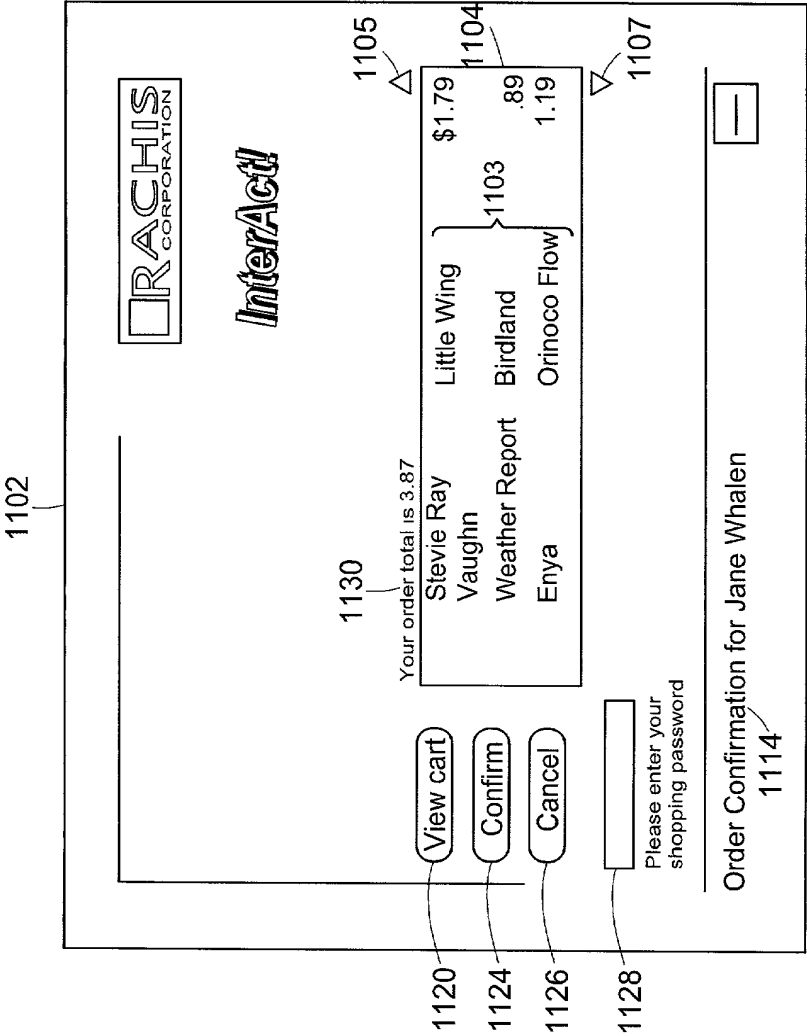


FIG. 13

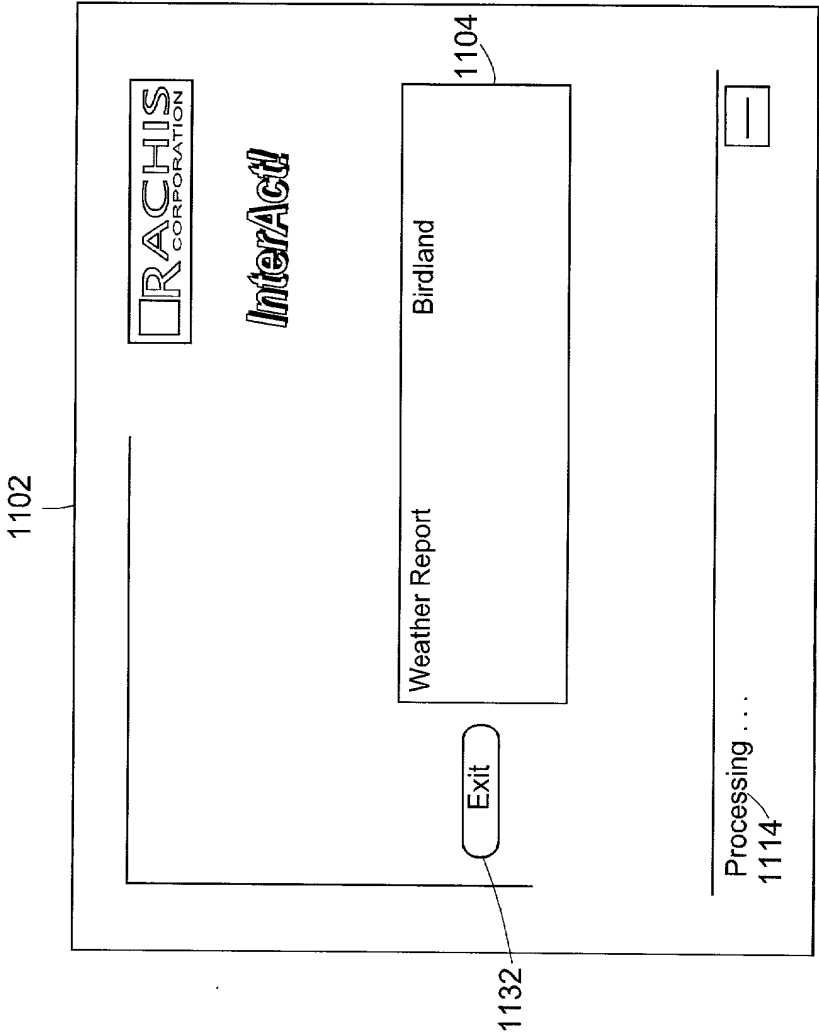


FIG. 14

1500

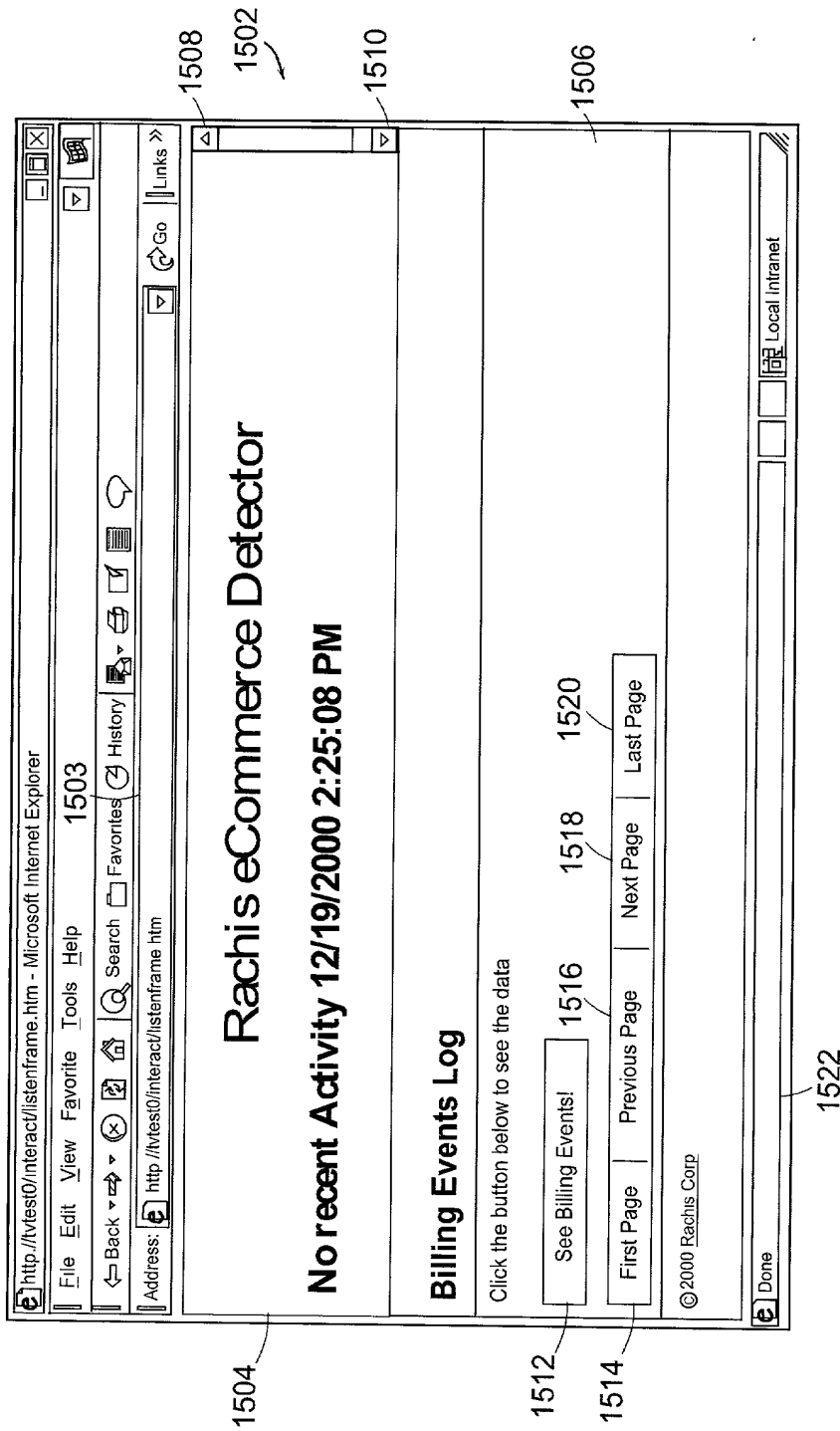


FIG. 15

1500

1503

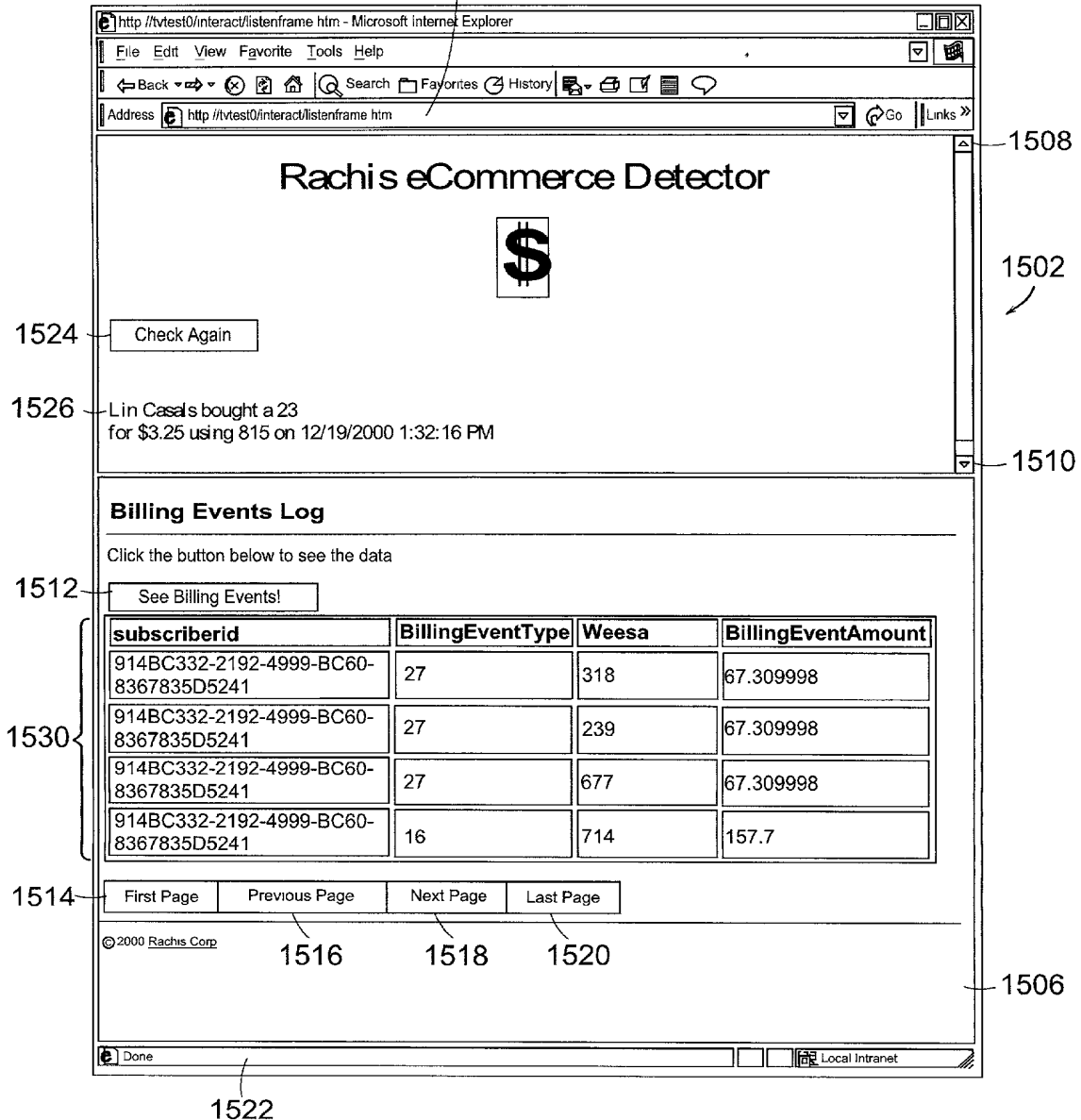


FIG. 16